

Data Report - Level 1.0 Validation

Project Name: Calpines Initial Study

Site Name: Park



PCR Services Corporation

Parameter: Carbon Monoxide (CO)

Units: Parts per Million (PPM)

Month: August

Year: 2005

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Ave | Max | Min | |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CA | CA | CA | IM | 0.0 | 0.0 | 0.0 | CA | CA | CA | CA | CA | 0.0 | 0.0 | 0.0 | 0.0 |
| 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CA | CA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 10 | CA | 0.4 | 0.5 | 0.5 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.6 | 0.5 | 0.5 | 0.6 | 0.7 | 0.6 | 0.7 | 0.4 | |
| 11 | 0.6 | 0.7 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.7 | 0.7 | 0.6 | 0.5 | 0.4 | 0.5 | 0.6 | CA | CA | CA | CA | CA | 0.6 | 0.7 | 0.4 | | |
| 12 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 | 0.2 | | |
| 13 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 | 0.4 | 0.3 | 0.2 | | |
| 14 | 0.3 | 0.4 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.4 | 0.4 | 0.3 | | |
| 15 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.4 | 0.6 | 0.4 | |
| 16 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 0.9 | 0.8 | 0.9 | 0.9 | 0.9 | 0.8 | 0.7 | 0.7 | 0.7 | 0.6 | 0.6 | 0.6 | 0.7 | 0.6 | 0.5 | 0.5 | 0.7 | 0.9 | 0.5 | |
| 17 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.6 | 0.6 | 0.5 | 0.6 | 0.8 | 0.5 | | |
| 18 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | ZS | ZS | 0.7 | 0.7 | 0.7 | 0.7 | 0.6 | 0.8 | 0.6 | |
| 19 | 0.8 | 0.8 | 0.8 | 1.2 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.8 | 0.8 | 0.8 | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.2 | 0.8 | |
| 20 | 0.8 | 0.8 | 0.8 | 1.3 | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.3 | 0.8 | |
| 21 | 0.9 | 0.9 | 0.9 | 1.3 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.3 | 0.9 | |
| 22 | 1.0 | 1.0 | 1.0 | 1.5 | 1.1 | 1.0 | 1.0 | 1.1 | 1.1 | 1.2 | 1.2 | 1.3 | 1.4 | 1.3 | 1.1 | 1.1 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.3 | 1.3 | 1.3 | 1.2 | 1.5 | 1.0 | |
| 23 | 1.3 | 1.2 | 1.1 | 1.6 | 1.2 | 1.2 | 1.2 | 1.3 | 1.2 | 1.2 | 1.2 | 1.2 | 1.3 | 1.5 | 1.4 | 1.3 | 1.1 | 1.1 | ZS | ZS | 1.1 | 1.1 | 1.1 | 1.0 | 1.2 | 1.6 | 1.0 | |
| 24 | 1.1 | 1.1 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.2 | 1.2 | 1.3 | 1.3 | 1.3 | 1.2 | 1.2 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.3 | 1.0 | |
| 25 | 1.1 | 1.1 | 1.1 | 1.6 | 1.1 | 1.1 | 1.2 | 1.2 | 1.3 | 1.3 | 1.4 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.5 | 1.4 | 1.4 | 1.4 | 1.3 | 1.6 | 1.1 | |
| 26 | 1.5 | 1.5 | 1.5 | 2.0 | 1.5 | 1.5 | 1.6 | 1.8 | 1.8 | 1.8 | 1.9 | 2.2 | 1.7 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.7 | 2.2 | 1.5 | |
| 27 | 1.6 | 1.6 | 1.6 | 1.9 | 1.4 | 1.4 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.7 | 1.7 | 1.6 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.9 | 1.4 | |
| 28 | 1.5 | 1.5 | 1.6 | 2.0 | 1.6 | 1.6 | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 | 1.7 | 1.7 | 1.6 | 1.5 | 1.5 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.6 | 2.0 | 1.4 | |
| 29 | 1.5 | 1.6 | 1.6 | 1.6 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | ZS | ZS | 1.6 | 1.7 | 1.7 | 1.7 | 1.6 | 1.8 | 1.5 | |
| 30 | 1.8 | 1.7 | 1.7 | 1.7 | 1.8 | 1.7 | 2.0 | 2.3 | 2.2 | 2.0 | 2.0 | 1.9 | 1.8 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.8 | 1.8 | 1.7 | 1.7 | 1.9 | 1.9 | 1.8 | 2.3 | 1.7 | |
| 31 | 1.8 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | 1.7 | 1.8 | 1.8 | 1.8 | 1.8 | 1.9 | 2.0 | 1.9 | 1.9 | 1.8 | 1.8 | 1.8 | 1.9 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | 1.8 | 2.0 | 1.7 | |
| Average | 0.7 | 0.7 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 | 0.8 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.7 | 0.7 | 0.8 | 0.7 | |
| Maximum | 1.8 | 1.8 | 1.8 | 2.0 | 1.8 | 1.7 | 2.0 | 2.3 | 2.2 | 2.0 | 1.9 | 2.2 | 1.9 | 1.9 | 1.8 | 1.8 | 1.8 | 1.8 | 1.9 | 1.8 | 1.8 | 1.8 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | |
| Minimum | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |

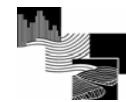
Quality Control Codes

| | |
|--------------------------------------|----|
| Auto Zero, Span Check | AS |
| Calibration | CA |
| Invalid Hour | IH |
| Instrument Malfunction | IM |
| Instrument Repair | IR |
| Channel Off Line | OL |
| Out of Range | OR |
| Rate of Change | RC |
| Replace Instrument | RP |
| Shelter Temperature Range Exceedance | ST |
| Instrument Warm Up | WU |

Data Report - Level 1.0 Validation

Project Name: Calpines Initial Study

Site Name: Park



PCR Services Corporation

Parameter: Oxides of Nitrogen (NOx)

Units: Parts per Billion (PPB)

Month: August

Year: 2005

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Ave | Max | Min | |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| 1 | 9.1 | 3.6 | 2.1 | 2.1 | 11.3 | 20.0 | 17.0 | 29.4 | 34.6 | 37.4 | 37.5 | 27.3 | 15.0 | 6.3 | 0.6 | 2.4 | 4.2 | 4.6 | 9.2 | 8.1 | 6.4 | 7.1 | 17.1 | 7.8 | 13.3 | 37.5 | 0.6 | |
| 2 | 7.2 | 7.7 | 5.0 | 1.2 | 2.2 | 0.0 | 0.2 | 38.0 | 18.4 | 19.7 | 29.3 | 22.0 | 15.4 | 10.4 | 5.8 | 2.6 | 1.7 | 0.0 | 0.0 | 2.7 | 5.3 | 3.6 | 7.9 | 7.9 | 8.9 | 38.0 | 0.0 | |
| 3 | 4.4 | 4.6 | 3.4 | 7.1 | 6.3 | 9.1 | 16.8 | 14.1 | 5.9 | 0.0 | 0.0 | CA | CA | CA | IM | 7.9 | 5.2 | 2.9 | CA | CA | CA | CA | CA | 9.1 | 6.5 | 16.8 | 0.0 | |
| 4 | 9.7 | 10.6 | 9.8 | 15.5 | 14.2 | 16.2 | 18.5 | CA | CA | 46.9 | 33.5 | 30.7 | 24.0 | 43.3 | 31.9 | 16.4 | 9.0 | 8.3 | 9.5 | 12.3 | 16.4 | 15.3 | 12.7 | 9.5 | 18.8 | 46.9 | 8.3 | |
| 5 | 6.2 | 7.7 | 8.1 | 10.2 | 6.5 | 7.0 | 9.5 | 17.2 | 28.9 | 29.1 | 31.0 | 42.6 | 33.3 | 27.3 | 20.6 | 10.8 | 8.2 | 7.5 | 8.6 | 11.9 | 16.5 | 17.0 | 17.6 | 18.2 | 16.7 | 42.6 | 6.2 | |
| 6 | 17.5 | 11.9 | 9.8 | 7.6 | 6.2 | 6.6 | 8.3 | 8.7 | 9.8 | 8.2 | 14.6 | 20.7 | 21.0 | 10.1 | 7.2 | 2.7 | 2.9 | 4.9 | 7.2 | 9.4 | 9.8 | 8.9 | 11.1 | 16.1 | 10.0 | 21.0 | 2.7 | |
| 7 | 15.0 | 18.8 | 17.4 | 14.2 | 11.1 | 10.2 | 11.0 | 11.9 | 13.2 | 10.0 | 5.2 | 2.7 | 7.9 | 8.2 | 4.2 | 3.6 | 2.8 | 3.5 | 4.2 | 7.3 | 9.3 | 9.9 | 11.5 | 13.0 | 9.4 | 18.8 | 2.7 | |
| 8 | 14.3 | 10.4 | 5.8 | 8.6 | 7.1 | 8.7 | 11.0 | 16.0 | 12.3 | 14.4 | 26.1 | 28.9 | 34.0 | 29.4 | 30.3 | 14.2 | 11.8 | 12.2 | 12.9 | 12.8 | 12.6 | 13.8 | 13.3 | 12.1 | 15.5 | 34.0 | 5.8 | |
| 9 | 10.2 | 7.2 | 4.9 | 6.2 | 8.8 | 11.6 | 13.8 | 0.0 | 11.7 | 11.5 | 6.8 | 17.0 | 21.5 | 31.3 | 26.0 | 19.5 | 18.5 | 12.5 | 14.3 | 15.1 | CA | CA | 6.7 | 1.0 | 12.6 | 31.3 | 0.0 | |
| 10 | 3.1 | 4.9 | 3.7 | 4.3 | 5.2 | 3.5 | 4.8 | 10.6 | 8.5 | 6.2 | 4.0 | 3.9 | 2.9 | 16.7 | 34.9 | 23.3 | 27.6 | 19.9 | 14.5 | 14.4 | 14.8 | 17.2 | 16.4 | 16.4 | 11.7 | 34.9 | 2.9 | |
| 11 | 18.1 | 20.5 | 17.5 | 11.8 | 9.1 | 11.4 | 23.5 | 23.5 | 15.7 | 13.2 | 4.2 | 6.4 | 22.0 | 25.7 | 22.6 | 12.2 | 5.8 | 8.9 | 13.1 | CA | CA | CA | CA | CA | 15.0 | 25.7 | 4.2 | |
| 12 | 8.2 | 7.5 | 10.7 | 11.0 | 8.0 | 8.1 | 10.1 | 18.8 | 15.6 | 12.0 | 11.9 | 10.0 | 6.5 | 7.0 | 16.0 | 23.3 | 19.6 | 15.2 | 16.3 | 10.5 | 9.4 | 8.0 | 7.0 | 6.7 | 11.6 | 23.3 | 6.5 | |
| 13 | 4.9 | 3.8 | 3.1 | 3.3 | 2.5 | 2.7 | 3.5 | 3.1 | 2.5 | 2.0 | 3.0 | 2.6 | 2.6 | 2.9 | 4.1 | 2.9 | 0.0 | 0.0 | 4.1 | 7.3 | 6.7 | 8.7 | 11.0 | 5.3 | 3.9 | 11.0 | 0.0 | |
| 14 | 0.1 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 1.9 | 0.0 | |
| 15 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.8 | 9.7 | 18.5 | 16.1 | 15.1 | 9.0 | 16.7 | 3.9 | 18.5 | 0.0 | |
| 16 | 13.9 | 16.7 | 16.2 | 17.7 | 12.6 | 13.6 | 17.9 | 22.7 | 37.4 | 25.4 | 25.4 | 26.1 | 31.7 | 31.1 | 20.9 | 20.1 | 18.0 | 12.6 | 13.2 | 16.2 | 13.8 | 1.6 | 0.2 | 0.0 | 17.7 | 37.4 | 0.0 | |
| 17 | 0.0 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.9 | 5.1 | 18.6 | 16.9 | 15.3 | 14.2 | 8.6 | 3.6 | 0.0 | 3.9 | 18.6 | 0.0 |
| 18 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 | 17.5 | 8.3 | 2.9 | 0.8 | 1.6 | ZS | ZS | 0.0 | 0.2 | 0.0 | 1.7 | 17.5 | 0.0 |
| 19 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.4 | 8.2 | 11.6 | 11.8 | 12.9 | 23.7 | 17.7 | 15.1 | 13.9 | 12.3 | 12.8 | 7.8 | 8.2 | 3.1 | 0.5 | 1.3 | 7.1 | 23.7 | 0.0 | |
| 20 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.1 | 2.1 | 3.8 | 6.0 | 4.8 | 1.5 | 0.0 | 1.5 | 2.8 | 1.9 | 2.3 | 1.2 | 1.0 | 3.4 | 0.0 | 0.0 | 0.0 | 1.6 | 6.0 | 0.0 | |
| 21 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.4 | 10.5 | 11.2 | 12.4 | 10.3 | 0.0 | 2.2 | 12.4 | 0.0 | | |
| 22 | 0.0 | 9.9 | 9.9 | 4.7 | 2.1 | 5.0 | 5.7 | 13.5 | 17.2 | 13.0 | 13.3 | 26.0 | 32.9 | 32.4 | 16.7 | 18.0 | 14.8 | 13.8 | 14.1 | 19.1 | 21.8 | 28.0 | 29.5 | 25.8 | 16.1 | 32.9 | 0.0 | |
| 23 | 25.7 | 22.2 | 21.0 | 17.2 | 19.7 | 19.6 | 21.5 | 32.3 | 24.4 | 15.5 | 12.3 | 11.4 | 14.9 | 20.1 | 34.3 | 27.9 | 18.3 | 2.5 | 0.0 | ZS | ZS | 0.0 | 0.0 | 0.0 | 16.4 | 34.3 | 0.0 | |
| 24 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 15.1 | 11.3 | 1.2 | 0.0 | 0.0 | 0.0 | 2.5 | 1.3 | 15.1 | 0.0 |
| 25 | 0.0 | 0.0 | 4.8 | 4.1 | 3.8 | 0.8 | 3.0 | 8.3 | 10.6 | 9.6 | 8.5 | 8.6 | 11.3 | 26.6 | 33.1 | 24.9 | 19.0 | 17.6 | 15.6 | 16.5 | 14.1 | 3.8 | 4.7 | 7.9 | 10.7 | 33.1 | 0.0 | |
| 26 | 6.2 | 7.6 | 6.8 | 4.7 | 3.0 | 4.3 | 11.6 | 24.5 | 51.6 | 38.2 | 36.4 | 51.7 | 54.4 | 34.3 | 28.0 | 27.9 | 25.6 | 21.3 | 17.6 | 20.6 | 19.0 | 19.7 | 17.7 | 20.6 | 23.1 | 54.4 | 3.0 | |
| 27 | 15.2 | 15.1 | 15.6 | 15.2 | 9.6 | 7.0 | 7.6 | 14.7 | 20.7 | 21.9 | 29.5 | 36.1 | 31.0 | 28.2 | 38.0 | 30.9 | 8.0 | 8.8 | 6.8 | 4.9 | 11.8 | 5.5 | 18.8 | 18.7 | 17.5 | 38.0 | 4.9 | |
| 28 | 13.2 | 4.4 | 13.7 | 12.7 | 16.6 | 15.6 | 16.7 | 16.2 | 14.4 | 16.2 | 20.7 | 19.9 | 14.7 | 8.0 | 3.6 | 2.6 | 2.1 | 1.9 | 2.3 | 6.3 | 7.8 | 6.5 | 8.1 | 6.2 | 10.4 | 20.7 | 1.9 | |
| 29 | 2.7 | 5.9 | 7.2 | 6.2 | 5.5 | 7.6 | 14.2 | 30.6 | 21.3 | 24.2 | 19.7 | 2.3 | 2.4 | 3.9 | 10.1 | 10.6 | 7.0 | 4.5 | 4.7 | ZS | ZS | 9.5 | 14.6 | 10.4 | 10.2 | 30.6 | 2.3 | |
| 30 | 11.4 | 10.9 | 8.6 | 10.1 | 11.0 | 13.9 | 40.4 | 79.7 | 49.4 | 22.7 | 31.2 | 29.3 | 10.2 | 4.9 | 4.7 | 7.0 | 3.3 | 4.7 | 5.9 | 7.5 | 6.1 | 8.6 | 29.8 | 20.2 | 18.0 | 79.7 | 3.3 | |
| 31 | 10.8 | 7.5 | 6.4 | 4.4 | 4.1 | 6.5 | 13.2 | 30.6 | 25.4 | 16.4 | 10.6 | 16.4 | 22.0 | 13.9 | 10.8 | 15.1 | 8.0 | 1.8 | 6.9 | 6.6 | 1.7 | 1.0 | 1.9 | 2.5 | 10.2 | 30.6 | 1.0 | |
| Average | 7.4 | 7.2 | 6.8 | 6.5 | 6.0 | 6.7 | 9.7 | 15.5 | 15.3 | 13.7 | 13.9 | 15.3 | 14.9 | 15.1 | 14.8 | 12.1 | 8.9 | 7.5 | 8.4 | 10.2 | 10.3 | 8.3 | 9.7 | 8.5 | | | | |
| Maximum | 25.7 | 22.2 | 21.0 | 17.7 | 19.7 | 20.0 | 40.4 | 79.7 | 51.6 | 46.9 | 37.5 | 51.7 | 54.4 | 43.3 | 38.0 | 30.9 | 27.6 | 21.3 | 17.6 | 20.6 | 21.8 | 28.0 | 29.8 | 25.8 | | | | |
| Minimum | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |

Quality Control Codes

| | |
|--------------------------------------|----|
| Auto Zero, Span Check | AS |
| Calibration | CA |
| Invalid Hour | IH |
| Instrument Malfunction | IM |
| Instrument Repair | IR |
| Channel Off Line | OL |
| Out of Range | OR |
| Rate of Change | RC |
| Replace Instrument | RP |
| Shelter Temperature Range Exceedance | ST |
| Instrument Warm Up | WU |

Data Report - Level 1.0 Validation

Project Name: Calpines Initial Study

Site Name: Park



PCR Services Corporation

Parameter: Nitrous Oxide (NO)

Units: Parts per Billion (PPB)

Month: August

Year: 2005

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Ave | Max | Min | |
|----------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|
| 1 | 4.3 | 4.0 | 4.5 | 4.1 | 7.2 | 9.8 | 11.9 | 20.1 | 18.6 | 18.5 | 15.9 | 11.5 | 7.1 | 6.1 | 5.2 | 4.7 | 5.2 | 4.0 | 5.0 | 4.1 | 4.3 | 4.2 | 6.4 | 4.3 | 8.0 | 20.1 | 4.0 | |
| 2 | 5.6 | 5.0 | 5.1 | 5.4 | 7.2 | 8.2 | 11.8 | 31.3 | 17.5 | 15.6 | 16.2 | 12.2 | 9.9 | 8.2 | 6.1 | 5.5 | 5.8 | 6.4 | 5.4 | 5.1 | 5.4 | 5.1 | 5.9 | 5.5 | 9.0 | 31.3 | 5.0 | |
| 3 | 5.8 | 6.9 | 7.0 | 6.8 | 8.2 | 10.9 | 17.4 | 16.6 | 11.3 | 8.5 | 6.8 | CA | CA | CA | IM | 7.9 | 6.9 | 7.2 | CA | CA | CA | CA | CA | 1.5 | 8.6 | 17.4 | 1.5 | |
| 4 | 1.6 | 1.6 | 1.7 | 1.0 | 1.5 | 1.8 | 5.0 | CA | CA | 24.0 | 8.3 | 5.6 | 0.0 | 4.3 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 24.0 | 0.0 | |
| 5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 6.6 | 4.6 | 5.5 | 7.5 | 4.3 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 7.5 | 0.0 | |
| 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.2 | 1.3 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 1.3 | 0.0 | |
| 7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 2.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 2.4 | 0.0 | |
| 8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.7 | 4.5 | 4.2 | 5.0 | 8.9 | 8.7 | 8.6 | 7.4 | 8.9 | 1.7 | 2.0 | 1.2 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 2.6 | 8.9 | 0.0 |
| 9 | 1.9 | 1.4 | 0.8 | 1.2 | 1.1 | 2.6 | 4.4 | 1.9 | 6.6 | 5.5 | 3.2 | 6.2 | 5.5 | 7.2 | 4.8 | 3.3 | 3.2 | 1.7 | 2.6 | 1.1 | CA | CA | 1.4 | 1.6 | 3.2 | 7.2 | 0.8 | |
| 10 | 2.4 | 2.4 | 2.5 | 2.7 | 2.7 | 2.8 | 3.1 | 6.7 | 6.1 | 5.1 | 5.0 | 3.8 | 3.1 | 6.7 | 11.2 | 6.9 | 10.3 | 5.8 | 3.7 | 2.6 | 2.5 | 2.7 | 2.6 | 3.0 | 4.4 | 11.2 | 2.4 | |
| 11 | 4.7 | 6.3 | 5.1 | 3.8 | 4.4 | 5.1 | 12.4 | 12.6 | 10.5 | 8.3 | 5.3 | 5.6 | 8.5 | 9.5 | 8.3 | 5.7 | 4.1 | 5.3 | 5.6 | CA | CA | CA | CA | CA | 6.9 | 12.6 | 3.8 | |
| 12 | 1.0 | 1.6 | 0.9 | 1.3 | 1.0 | 1.4 | 1.8 | 6.0 | 4.9 | 2.9 | 2.8 | 2.3 | 1.7 | 0.4 | 1.5 | 2.4 | 2.7 | 1.5 | 1.6 | 0.7 | 1.4 | 1.0 | 1.1 | 1.0 | 1.9 | 6.0 | 0.4 | |
| 13 | 0.6 | 0.7 | 0.9 | 1.0 | 1.0 | 1.1 | 1.8 | 1.4 | 1.0 | 1.1 | 0.8 | 1.7 | 1.5 | 1.0 | 1.2 | 0.3 | 1.5 | 1.3 | 1.4 | 1.2 | 0.9 | 0.3 | 0.9 | 0.6 | 1.1 | 1.8 | 0.3 | |
| 14 | 1.4 | 1.4 | 0.3 | 1.2 | 1.3 | 0.7 | 0.5 | 1.2 | 1.3 | 1.3 | 1.5 | 1.6 | 1.3 | 1.5 | 1.1 | 1.4 | 0.9 | 1.1 | 0.8 | 1.4 | 0.9 | 0.9 | 0.9 | 1.1 | 1.6 | 0.3 | | |
| 15 | 1.3 | 0.8 | 0.9 | 1.1 | 0.9 | 0.8 | 1.4 | 1.2 | 0.7 | 1.0 | 1.5 | 1.4 | 1.1 | 1.2 | 2.2 | 1.9 | 1.7 | 1.9 | 1.1 | 1.5 | 0.9 | 1.0 | 0.9 | 0.9 | 1.2 | 2.2 | 0.7 | |
| 16 | 1.1 | 0.7 | 1.1 | 1.4 | 1.2 | 1.5 | 3.9 | 6.6 | 14.2 | 6.9 | 5.9 | 6.7 | 6.1 | 6.6 | 3.1 | 2.4 | 2.2 | 2.0 | 0.7 | 1.5 | 0.8 | 1.0 | 1.0 | 1.0 | 3.3 | 14.2 | 0.7 | |
| 17 | 1.6 | 1.0 | 0.7 | 1.1 | 1.0 | 1.3 | 1.0 | 2.2 | 2.1 | 2.7 | 3.0 | 2.3 | 1.7 | 1.0 | 2.0 | 3.3 | 3.6 | 3.2 | 2.4 | 1.7 | 1.3 | 0.8 | 0.7 | 1.1 | 1.8 | 3.6 | 0.7 | |
| 18 | 0.9 | 1.1 | 1.5 | 1.0 | 1.1 | 1.3 | 1.4 | 1.2 | 1.3 | 2.7 | 2.1 | 2.0 | 1.8 | 3.0 | 3.8 | 3.2 | 2.0 | 2.6 | 2.3 | ZS | ZS | 2.0 | 1.4 | 0.9 | 1.8 | 3.8 | 0.9 | |
| 19 | 1.6 | 1.7 | 1.2 | 1.5 | 1.5 | 0.8 | 1.7 | 3.0 | 3.8 | 3.6 | 4.9 | 3.5 | 5.9 | 4.6 | 3.1 | 2.8 | 2.5 | 2.2 | 0.8 | 0.8 | 0.7 | 1.4 | 1.0 | 2.3 | 5.9 | 0.7 | | |
| 20 | 1.1 | 1.1 | 0.7 | 1.6 | 0.8 | 0.9 | 1.2 | 1.7 | 3.8 | 4.9 | 4.8 | 4.2 | 3.7 | 3.5 | 2.2 | 1.8 | 1.4 | 1.5 | 0.9 | 1.5 | 0.9 | 1.3 | 1.3 | 2.0 | 4.9 | 0.7 | | |
| 21 | 0.7 | 1.5 | 1.2 | 1.3 | 1.3 | 0.3 | 1.1 | 1.1 | 1.8 | 2.7 | 2.9 | 3.3 | 2.7 | 2.2 | 2.3 | 2.0 | 1.1 | 2.1 | 1.4 | 1.0 | 1.2 | 1.0 | 1.0 | 1.8 | 1.6 | 3.3 | 0.3 | |
| 22 | 1.1 | 1.4 | 0.4 | 1.1 | 1.1 | 1.2 | 1.2 | 3.6 | 3.7 | 6.5 | 7.9 | 10.9 | 14.7 | 10.4 | 3.6 | 5.7 | 3.4 | 1.8 | 2.1 | 1.4 | 1.1 | 2.0 | 4.0 | 2.5 | 3.8 | 14.7 | 0.4 | |
| 23 | 2.5 | 2.2 | 2.0 | 1.2 | 2.8 | 1.9 | 4.6 | 12.9 | 8.5 | 4.0 | 2.6 | 2.2 | 2.7 | 4.4 | 8.0 | 4.6 | 3.3 | 1.7 | 1.6 | ZS | ZS | 0.7 | 1.7 | 1.2 | 3.5 | 12.9 | 0.7 | |
| 24 | 0.9 | 1.6 | 1.4 | 1.6 | 0.9 | 1.1 | 1.2 | 1.8 | 2.1 | 2.0 | 1.9 | 2.0 | 1.7 | 1.7 | 1.8 | 3.7 | 4.9 | 3.0 | 1.7 | 1.5 | 1.3 | 1.1 | 1.5 | 1.2 | 1.8 | 4.9 | 0.9 | |
| 25 | 1.0 | 0.5 | 1.7 | 0.7 | 1.1 | 1.4 | 1.3 | 1.1 | 2.2 | 2.4 | 1.8 | 2.2 | 3.3 | 8.1 | 7.0 | 3.7 | 2.7 | 1.7 | 1.7 | 1.4 | 0.9 | 0.9 | 1.0 | 0.7 | 2.1 | 8.1 | 0.5 | |
| 26 | 1.3 | 1.5 | 1.5 | 0.8 | 1.6 | 2.0 | 7.3 | 18.2 | 22.8 | 12.3 | 10.3 | 13.5 | 12.0 | 5.4 | 3.5 | 3.6 | 3.1 | 1.7 | 1.4 | 0.8 | 1.6 | 1.3 | 1.6 | 1.5 | 5.4 | 22.8 | 0.8 | |
| 27 | 1.1 | 2.0 | 1.1 | 1.5 | 0.6 | 1.2 | 1.7 | 4.7 | 6.6 | 6.0 | 10.9 | 12.6 | 8.8 | 8.9 | 15.7 | 12.1 | 2.3 | 2.2 | 2.6 | 0.9 | 1.4 | 1.0 | 1.2 | 1.4 | 4.5 | 15.7 | 0.6 | |
| 28 | 1.4 | 1.1 | 1.3 | 1.2 | 1.6 | 1.3 | 2.2 | 3.5 | 3.1 | 3.1 | 4.0 | 3.0 | 2.7 | 2.6 | 1.8 | 1.8 | 2.2 | 0.8 | 0.8 | 1.4 | 1.3 | 1.4 | 1.2 | 1.4 | 1.9 | 4.0 | 0.8 | |
| 29 | 1.2 | 1.7 | 1.9 | 2.2 | 1.7 | 1.8 | 4.9 | 15.0 | 9.1 | 10.9 | 7.5 | 2.6 | 2.9 | 3.3 | 2.7 | 2.5 | 2.5 | 1.8 | 1.9 | ZS | ZS | 1.4 | 1.5 | 1.6 | 3.8 | 15.0 | 1.2 | |
| 30 | 1.7 | 1.0 | 2.1 | 2.2 | 2.2 | 4.3 | 19.3 | 44.1 | 22.7 | 8.2 | 10.6 | 8.6 | 2.9 | 2.3 | 2.3 | 3.6 | 1.8 | 1.9 | 1.5 | 1.2 | 1.3 | 1.3 | 8.6 | 5.1 | 6.7 | 44.1 | 1.0 | |
| 31 | 1.4 | 1.7 | 1.0 | 1.1 | 1.5 | 1.6 | 2.0 | 5.9 | 4.7 | 2.7 | 1.4 | 2.4 | 3.3 | 3.6 | 2.5 | 2.9 | 1.6 | 0.9 | 1.2 | 2.0 | 1.4 | 1.6 | 1.4 | 2.1 | 5.9 | 0.9 | | |
| Average | 1.7 | 1.7 | 1.6 | 1.6 | 1.9 | 2.3 | 4.1 | 7.7 | 6.7 | 5.9 | 5.3 | 5.1 | 4.3 | 4.4 | 4.1 | 3.3 | 2.8 | 2.2 | 1.8 | 1.3 | 1.3 | 1.2 | 1.8 | 1.5 | | | | |
| Maximum | 5.8 | 6.9 | 7.0 | 6.8 | 8.2 | 10.9 | 19.3 | 44.1 | 22.8 | 24.0 | 16.2 | 13.5 | 14.7 | 10.4 | 15.7 | 12.1 | 10.3 | 7.2 | 5.6 | 5.1 | 5.4 | 5.1 | 8.6 | 5.5 | | | | |
| Minimum | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |

Quality Control Codes

| | |
|--------------------------------------|----|
| Auto Zero, Span Check | AS |
| Calibration | CA |
| Invalid Hour | IH |
| Instrument Malfunction | IM |
| Instrument Repair | IR |
| Channel Off Line | OL |
| Out of Range | OR |
| Rate of Change | RC |
| Replace Instrument | RP |
| Shelter Temperature Range Exceedance | ST |
| Instrument Warm Up | WU |

Data Report - Level 1.0 Validation

Project Name: Calpines Initial Study

Site Name: Park



PCR

PCR Services Corporation

Parameter: Nitrogen Dioxide (NO2)

Units: Parts per Billion (PPB)

Month: August

Year: 2005

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Ave | Max | Min | |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| 1 | 4.8 | 0.0 | 0.0 | 0.0 | 4.1 | 10.2 | 5.0 | 9.3 | 15.9 | 18.8 | 21.7 | 15.8 | 7.9 | 0.1 | 0.0 | 0.0 | 0.0 | 0.6 | 4.2 | 4.0 | 2.1 | 2.9 | 10.7 | 3.5 | 5.9 | 21.7 | 0.0 | |
| 2 | 1.7 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.7 | 0.9 | 4.1 | 13.1 | 9.8 | 5.5 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 2.1 | 13.1 | 0.0 | |
| 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CA | CA | CA | IM | 0.0 | 0.0 | 0.0 | CA | CA | CA | CA | 7.7 | 0.5 | 7.7 | 0.0 | |
| 4 | 8.1 | 8.9 | 8.2 | 14.5 | 12.7 | 14.5 | 13.5 | CA | CA | 23.0 | 25.1 | 25.1 | 24.0 | 39.0 | 28.7 | 16.4 | 9.0 | 8.3 | 9.5 | 12.3 | 16.4 | 15.3 | 12.7 | 9.5 | 16.1 | 39.0 | 8.1 | |
| 5 | 6.2 | 7.7 | 8.1 | 10.2 | 6.5 | 7.0 | 9.5 | 17.1 | 22.3 | 24.5 | 25.5 | 35.1 | 29.0 | 23.2 | 20.6 | 10.8 | 8.2 | 7.5 | 8.6 | 11.9 | 16.5 | 17.0 | 17.6 | 18.2 | 15.4 | 35.1 | 6.2 | |
| 6 | 17.5 | 11.9 | 9.8 | 7.6 | 6.2 | 6.6 | 8.3 | 8.7 | 9.8 | 8.2 | 14.4 | 19.4 | 20.5 | 10.1 | 7.2 | 2.7 | 2.9 | 4.9 | 7.2 | 9.4 | 9.8 | 8.9 | 11.1 | 16.1 | 10.0 | 20.5 | 2.7 | |
| 7 | 15.0 | 18.8 | 17.4 | 14.2 | 11.1 | 10.2 | 11.0 | 10.2 | 10.8 | 8.6 | 5.2 | 2.7 | 7.9 | 8.2 | 4.2 | 3.6 | 2.8 | 3.5 | 4.2 | 7.3 | 9.3 | 9.9 | 11.5 | 13.0 | 9.2 | 18.8 | 2.7 | |
| 8 | 14.3 | 10.4 | 5.8 | 8.6 | 7.1 | 8.6 | 10.3 | 11.5 | 8.1 | 9.4 | 17.2 | 20.1 | 25.3 | 22.0 | 21.3 | 12.6 | 9.8 | 10.9 | 11.6 | 12.8 | 12.6 | 13.8 | 13.3 | 11.8 | 12.9 | 25.3 | 5.8 | |
| 9 | 8.2 | 5.8 | 4.2 | 4.9 | 7.6 | 9.0 | 9.4 | 0.0 | 5.1 | 5.9 | 3.5 | 10.8 | 16.0 | 24.2 | 21.3 | 16.2 | 15.3 | 10.8 | 11.8 | 14.0 | CA | CA | 5.3 | 0.0 | 9.5 | 24.2 | 0.0 | |
| 10 | 0.7 | 2.4 | 1.2 | 1.6 | 2.4 | 0.7 | 1.7 | 3.9 | 2.4 | 1.1 | 0.0 | 0.1 | 0.0 | 10.0 | 23.6 | 16.4 | 17.2 | 14.2 | 10.8 | 11.8 | 12.2 | 14.4 | 13.8 | 13.4 | 7.3 | 23.6 | 0.0 | |
| 11 | 13.4 | 14.2 | 12.4 | 8.0 | 4.7 | 6.2 | 11.1 | 10.9 | 5.2 | 4.9 | 0.0 | 0.8 | 13.5 | 16.2 | 14.3 | 6.6 | 1.6 | 3.6 | 7.5 | CA | CA | CA | CA | CA | 8.2 | 16.2 | 0.0 | |
| 12 | 7.2 | 5.9 | 9.8 | 9.7 | 7.0 | 6.7 | 8.3 | 12.8 | 10.7 | 9.1 | 9.2 | 7.7 | 4.8 | 6.6 | 14.6 | 20.9 | 17.0 | 13.7 | 14.7 | 9.8 | 7.9 | 7.1 | 5.9 | 5.7 | 9.7 | 20.9 | 4.8 | |
| 13 | 4.3 | 3.1 | 2.2 | 2.3 | 1.5 | 1.7 | 1.7 | 1.8 | 1.5 | 0.9 | 2.2 | 0.9 | 1.1 | 1.9 | 2.9 | 2.6 | 0.0 | 0.0 | 2.7 | 6.1 | 5.9 | 8.4 | 10.2 | 4.7 | 2.9 | 10.2 | 0.0 | |
| 14 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 15 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.9 | 8.6 | 17.0 | 15.2 | 14.1 | 8.1 | 15.8 | 3.5 | 17.0 | 0.0 | |
| 16 | 12.9 | 16.0 | 15.1 | 16.2 | 11.4 | 12.2 | 13.9 | 16.2 | 23.1 | 18.5 | 19.5 | 19.4 | 25.6 | 24.5 | 17.9 | 17.7 | 15.8 | 10.6 | 12.5 | 14.8 | 13.0 | 0.5 | 0.0 | 0.0 | 14.5 | 25.6 | 0.0 | |
| 17 | 0.0 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.5 | 1.6 | 15.3 | 14.6 | 13.6 | 12.9 | 7.8 | 2.9 | 0.0 | 3.1 | 15.3 | 0.0 | |
| 18 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 | 13.6 | 5.1 | 1.0 | 0.0 | 0.0 | ZS | ZS | 0.0 | 0.0 | 0.0 | 1.1 | 13.6 | 0.0 |
| 19 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.4 | 4.4 | 8.0 | 6.9 | 9.5 | 17.8 | 13.1 | 12.0 | 11.1 | 9.8 | 10.6 | 7.0 | 7.4 | 2.4 | 0.0 | 0.4 | 5.2 | 17.8 | 0.0 | |
| 20 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.3 | 2.4 | 0.0 |
| 21 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 | 9.6 | 9.9 | 11.4 | 9.3 | 0.0 | 2.0 | 11.4 | 0.0 | |
| 22 | 0.0 | 8.6 | 9.4 | 3.6 | 1.1 | 3.8 | 4.5 | 9.9 | 13.6 | 6.5 | 5.5 | 15.1 | 18.2 | 22.0 | 13.2 | 12.3 | 11.4 | 12.0 | 12.0 | 17.7 | 20.8 | 26.1 | 25.5 | 23.3 | 12.3 | 26.1 | 0.0 | |
| 23 | 23.2 | 19.9 | 19.0 | 16.0 | 16.9 | 17.6 | 17.0 | 19.4 | 15.9 | 11.5 | 9.7 | 9.2 | 12.2 | 15.7 | 26.3 | 23.3 | 15.1 | 0.9 | 0.0 | ZS | ZS | 0.0 | 0.0 | 0.0 | 0.0 | 13.1 | 26.3 | 0.0 |
| 24 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 11.4 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.8 | 11.4 | 0.0 | |
| 25 | 0.0 | 0.0 | 3.0 | 3.4 | 2.7 | 0.0 | 1.8 | 7.2 | 8.4 | 7.3 | 6.7 | 6.3 | 8.0 | 18.5 | 26.1 | 21.2 | 16.2 | 15.9 | 13.9 | 15.1 | 13.2 | 2.9 | 3.7 | 7.2 | 8.7 | 26.1 | 0.0 | |
| 26 | 5.0 | 6.2 | 5.4 | 3.9 | 1.4 | 2.2 | 4.3 | 6.4 | 28.9 | 25.9 | 26.1 | 38.3 | 42.4 | 28.8 | 24.5 | 24.2 | 22.5 | 19.6 | 16.2 | 19.8 | 17.4 | 18.3 | 16.1 | 19.1 | 17.6 | 42.4 | 1.4 | |
| 27 | 14.1 | 13.1 | 14.6 | 13.8 | 9.0 | 5.8 | 5.9 | 10.0 | 14.1 | 15.9 | 18.6 | 23.5 | 22.1 | 19.3 | 22.2 | 18.9 | 5.7 | 6.5 | 4.3 | 4.0 | 10.4 | 4.5 | 17.6 | 17.2 | 13.0 | 23.5 | 4.0 | |
| 28 | 11.8 | 3.2 | 12.4 | 11.5 | 15.0 | 14.3 | 14.4 | 12.7 | 11.3 | 13.2 | 16.7 | 16.9 | 12.0 | 5.4 | 1.8 | 0.8 | 0.0 | 1.2 | 1.4 | 4.9 | 6.4 | 5.1 | 6.9 | 4.8 | 8.5 | 16.9 | 0.0 | |
| 29 | 1.6 | 4.2 | 5.3 | 4.0 | 3.7 | 5.8 | 9.3 | 15.6 | 12.2 | 13.3 | 12.2 | 0.0 | 0.0 | 0.6 | 7.4 | 8.1 | 4.5 | 2.7 | 2.8 | ZS | ZS | 8.1 | 13.1 | 8.8 | 6.5 | 15.6 | 0.0 | |
| 30 | 9.7 | 9.8 | 6.6 | 7.9 | 8.8 | 9.6 | 21.1 | 35.5 | 26.7 | 14.5 | 20.5 | 20.7 | 7.4 | 2.6 | 2.4 | 3.4 | 1.5 | 2.8 | 4.4 | 6.3 | 4.8 | 7.3 | 21.1 | 15.1 | 11.3 | 35.5 | 1.5 | |
| 31 | 9.4 | 5.8 | 5.5 | 3.4 | 2.7 | 5.0 | 11.2 | 24.7 | 20.8 | 13.7 | 9.2 | 14.0 | 18.7 | 10.2 | 8.2 | 12.2 | 6.4 | 0.9 | 5.7 | 4.6 | 0.3 | 0.0 | 0.3 | 1.0 | 8.1 | 24.7 | 0.0 | |
| Average | 6.2 | 5.8 | 5.7 | 5.3 | 4.6 | 5.1 | 6.2 | 8.3 | 9.1 | 8.5 | 9.4 | 10.6 | 11.1 | 11.1 | 11.2 | 9.1 | 6.6 | 5.9 | 6.9 | 9.0 | 9.1 | 7.4 | 8.2 | 7.3 | | | | |
| Maximum | 23.2 | 19.9 | 19.0 | 16.2 | 16.9 | 17.6 | 21.1 | 35.5 | 28.9 | 25.9 | 26.1 | 38.3 | 42.4 | 39.0 | 28.7 | 24.2 | 22.5 | 19.6 | 16.2 | 19.8 | 20.8 | 26.1 | 25.5 | 23.3 | | | | |
| Minimum | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |

Quality Control Codes

| | |
|--------------------------------------|----|
| Auto Zero, Span Check | AS |
| Calibration | CA |
| Invalid Hour | IH |
| Instrument Malfunction | IM |
| Instrument Repair | IR |
| Channel Off Line | OL |
| Out of Range | OR |
| Rate of Change | RC |
| Replace Instrument | RP |
| Shelter Temperature Range Exceedance | ST |
| Instrument Warm Up | WU |

Data Report - Level 1.0 Validation

Project Name: Calpines Initial Study

Site Name: Park



PCR Services Corporation

Parameter: Wind Speed

Units: Meters per Second (m/s)

Month: August

Year: 2005

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Ave | Max | Min |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 1.8 | 0.7 | 0.4 | 0.3 | 1.0 | 0.4 | 0.3 | 2.0 | 1.9 | 2.4 | 2.4 | 3.0 | 2.8 | 3.5 | 4.3 | 4.1 | 3.8 | 3.8 | 3.5 | 2.8 | 1.9 | 1.3 | 1.0 | 1.2 | 2.1 | 4.3 | 0.3 |
| 2 | 0.7 | 0.1 | 0.1 | 0.1 | 0.1 | 1.0 | 0.1 | 0.8 | 0.5 | 1.7 | 2.0 | 2.5 | 2.7 | 3.3 | 3.4 | 3.3 | 3.9 | 4.0 | 3.2 | 2.8 | 2.4 | 2.2 | 1.7 | 1.2 | 1.8 | 4.0 | 0.1 |
| 3 | 0.0 | 0.2 | 0.1 | 0.2 | 0.1 | 0.4 | 1.3 | 1.7 | 1.5 | 0.9 | 0.4 | 0.4 | 2.1 | 2.5 | IM | 0.5 | 2.9 | 3.2 | 3.5 | 2.9 | 1.2 | 3.1 | 2.7 | 2.5 | 1.5 | 3.5 | 0.0 |
| 4 | 1.6 | 1.6 | 1.4 | 1.0 | 0.8 | 0.0 | 0.1 | 1.0 | 0.4 | 0.3 | 0.6 | 1.4 | 2.2 | 3.0 | 2.9 | 3.2 | 2.9 | 3.3 | 2.6 | 2.7 | 2.5 | 2.2 | 1.7 | 0.9 | 1.7 | 3.3 | 0.0 |
| 5 | 1.3 | 0.7 | 0.3 | 0.3 | 0.6 | 0.3 | 0.2 | 0.4 | 0.4 | 0.9 | 2.2 | 2.8 | 2.8 | 3.1 | 3.3 | 3.6 | 3.7 | 3.1 | 2.9 | 2.4 | 2.2 | 2.3 | 2.1 | 1.9 | 3.7 | 0.2 | |
| 6 | 2.1 | 1.9 | 1.5 | 0.8 | 0.4 | 0.3 | 0.1 | 0.7 | 0.6 | 0.4 | 1.6 | 2.8 | 3.2 | 3.2 | 3.2 | 3.8 | 3.5 | 3.3 | 3.2 | 2.6 | 1.8 | 1.3 | 1.1 | 2.0 | 3.8 | 0.1 | |
| 7 | 0.8 | 1.0 | 0.5 | 0.6 | 0.3 | 0.7 | 0.5 | 0.6 | 2.0 | 2.3 | 1.9 | 0.7 | 2.4 | 3.2 | 3.3 | 3.6 | 3.8 | 3.7 | 3.5 | 2.9 | 2.7 | 2.6 | 2.2 | 1.5 | 2.0 | 3.8 | 0.3 |
| 8 | 1.8 | 1.6 | 1.5 | 0.1 | 0.1 | 1.0 | 1.2 | 1.8 | 0.6 | 0.3 | 1.0 | 1.5 | 2.4 | 2.6 | 3.2 | 3.6 | 3.6 | 3.5 | 3.0 | 2.7 | 2.7 | 1.9 | 1.8 | 1.4 | 1.9 | 3.6 | 0.1 |
| 9 | 0.4 | 1.2 | 0.5 | 0.8 | 0.5 | 1.7 | 2.0 | 3.7 | 1.0 | 0.4 | 0.2 | 1.5 | 1.9 | 2.2 | 2.2 | 2.4 | 3.1 | 2.9 | 2.7 | 2.5 | 1.9 | 1.7 | 1.7 | 1.7 | 3.7 | 0.2 | |
| 10 | 2.0 | 1.4 | 1.6 | 2.5 | 2.7 | 2.7 | 2.4 | 3.6 | 3.4 | 3.2 | 2.9 | 1.8 | 0.1 | 1.5 | 2.9 | 3.1 | 3.2 | 3.4 | 3.6 | 3.1 | 2.4 | 1.7 | 0.7 | 0.1 | 2.3 | 3.6 | 0.1 |
| 11 | 0.1 | 0.9 | 0.9 | 1.4 | 0.2 | 0.1 | 0.4 | 1.4 | 2.2 | 1.8 | 1.3 | 0.5 | 1.2 | 2.9 | 2.7 | 2.1 | 2.9 | 3.6 | 3.6 | 2.6 | 1.5 | 3.0 | 3.5 | 3.3 | 1.8 | 3.6 | 0.1 |
| 12 | 2.6 | 2.4 | 2.6 | 1.8 | 2.2 | 2.4 | 2.9 | 3.7 | 4.2 | 3.4 | 2.9 | 2.3 | 0.2 | 0.6 | 2.2 | 3.0 | 3.5 | 3.4 | 2.7 | 1.7 | 3.1 | 3.4 | 2.6 | 2.2 | 2.6 | 4.2 | 0.2 |
| 13 | 2.1 | 2.5 | 2.4 | 2.2 | 2.4 | 2.5 | 2.2 | 2.3 | 2.7 | 2.7 | 2.9 | 3.2 | 3.0 | 1.8 | 0.7 | 0.8 | 1.1 | 2.5 | 3.2 | 2.6 | 2.5 | 1.7 | 0.3 | 1.9 | 2.2 | 3.2 | 0.3 |
| 14 | 2.8 | 3.0 | 3.0 | 2.7 | 2.3 | 2.3 | 2.7 | 2.9 | 3.0 | 2.6 | 3.3 | 3.5 | 3.1 | 2.4 | 2.4 | 2.7 | 0.7 | 2.8 | 2.7 | 2.2 | 2.7 | 3.0 | 2.7 | 2.2 | 2.7 | 3.5 | 0.7 |
| 15 | 1.8 | 2.2 | 3.0 | 3.3 | 3.9 | 3.4 | 3.4 | 2.6 | 2.9 | 2.8 | 2.3 | 3.0 | 3.1 | 2.8 | 4.4 | 3.8 | 3.8 | 2.7 | 1.6 | 2.2 | 2.7 | 2.3 | 0.3 | 0.6 | 2.7 | 4.4 | 0.3 |
| 16 | 0.5 | 1.4 | 0.4 | 0.0 | 0.1 | 0.5 | 0.3 | 0.3 | 1.3 | 0.6 | 1.2 | 1.7 | 2.3 | 3.1 | 3.2 | 3.2 | 3.5 | 3.1 | 2.8 | 0.8 | 3.3 | 3.0 | 2.4 | 1.8 | 3.5 | 0.0 | |
| 17 | 2.5 | 1.8 | 1.7 | 1.9 | 1.8 | 1.3 | 1.5 | 1.9 | 2.1 | 2.4 | 3.5 | 3.5 | 2.4 | 0.3 | 1.7 | 2.7 | 3.5 | 3.6 | 3.3 | 2.6 | 0.6 | 3.0 | 2.5 | 2.8 | 2.3 | 3.6 | 0.3 |
| 18 | 3.7 | 3.8 | 3.6 | 3.7 | 3.9 | 3.9 | 3.6 | 3.3 | 3.3 | 3.2 | 3.4 | 2.8 | 0.7 | 1.3 | 3.2 | 3.0 | 3.4 | 3.4 | 3.8 | 3.3 | 2.9 | 2.3 | 1.7 | 0.1 | 3.0 | 3.9 | 0.1 |
| 19 | 0.7 | 0.2 | 0.6 | 1.0 | 0.9 | 1.0 | 0.7 | 0.6 | 1.1 | 0.9 | 0.4 | 0.3 | 2.0 | 2.8 | 3.4 | 3.6 | 3.4 | 3.4 | 3.1 | 3.0 | 2.6 | 2.7 | 2.4 | 2.4 | 1.8 | 3.6 | 0.2 |
| 20 | 1.8 | 1.5 | 1.4 | 0.5 | 0.7 | 1.5 | 1.2 | 1.8 | 1.1 | 1.5 | 2.2 | 2.5 | 3.1 | 3.2 | 3.6 | 3.8 | 3.8 | 3.3 | 3.5 | 3.0 | 3.0 | 2.8 | 2.6 | 2.4 | 2.3 | 3.8 | 0.5 |
| 21 | 2.5 | 2.4 | 1.8 | 1.4 | 1.1 | 1.2 | 1.6 | 1.0 | 1.7 | 2.2 | 2.8 | 3.1 | 3.6 | 3.6 | 3.8 | 4.0 | 4.2 | 3.7 | 3.9 | 3.5 | 3.0 | 2.4 | 2.2 | 2.3 | 2.6 | 4.2 | 1.0 |
| 22 | 2.2 | 0.9 | 0.7 | 1.3 | 1.6 | 0.4 | 0.3 | 0.2 | 1.0 | 0.5 | 1.8 | 2.0 | 3.1 | 3.2 | 3.3 | 3.3 | 3.5 | 3.3 | 2.8 | 3.3 | 2.7 | 1.6 | 1.4 | 0.5 | 1.9 | 3.5 | 0.2 |
| 23 | 0.6 | 2.1 | 2.3 | 0.4 | 1.0 | 0.9 | 0.8 | 1.8 | 2.6 | 2.6 | 2.2 | 1.5 | 0.7 | 1.9 | 2.8 | 2.5 | 1.2 | 2.0 | 3.8 | 4.1 | 3.8 | 3.2 | 2.9 | 3.2 | 2.1 | 4.1 | 0.4 |
| 24 | 2.9 | 2.8 | 3.6 | 3.9 | 3.9 | 4.9 | 5.5 | 6.0 | 5.7 | 4.7 | 3.6 | 3.4 | 3.4 | 3.0 | 2.4 | 1.3 | 2.8 | 2.8 | 0.5 | 2.9 | 3.3 | 2.7 | 2.8 | 2.4 | 3.4 | 6.0 | 0.5 |
| 25 | 2.4 | 3.0 | 2.3 | 2.8 | 3.0 | 2.6 | 3.1 | 2.9 | 3.0 | 2.8 | 1.8 | 0.3 | 1.5 | 2.7 | 3.0 | 2.9 | 3.1 | 3.0 | 3.4 | 2.9 | 2.3 | 2.0 | 1.8 | 0.4 | 2.5 | 3.4 | 0.3 |
| 26 | 0.1 | 0.1 | 0.2 | 0.1 | 0.0 | 0.0 | 0.2 | 0.2 | 0.5 | 1.7 | 2.1 | 2.4 | 2.8 | 3.2 | 3.2 | 3.0 | 3.1 | 3.1 | 2.8 | 3.1 | 2.4 | 1.8 | 1.4 | 1.6 | 1.6 | 3.2 | 0.0 |
| 27 | 0.6 | 0.8 | 1.3 | 1.7 | 1.5 | 0.6 | 0.1 | 0.9 | 1.5 | 1.7 | 2.2 | 2.3 | 2.9 | 3.4 | 3.5 | 3.1 | 3.2 | 3.3 | 3.6 | 2.7 | 1.9 | 1.7 | 0.2 | 0.3 | 1.9 | 3.6 | 0.1 |
| 28 | 1.0 | 0.4 | 0.1 | 0.0 | 0.2 | 0.1 | 0.5 | 1.0 | 0.4 | 0.8 | 1.8 | 2.2 | 2.5 | 3.2 | 3.3 | 3.4 | 3.4 | 3.2 | 3.2 | 3.5 | 2.7 | 1.7 | 0.9 | 0.8 | 1.7 | 3.5 | 0.0 |
| 29 | 0.6 | 0.2 | 0.4 | 0.7 | 0.7 | 0.1 | 0.3 | 0.7 | 1.8 | 2.5 | 3.2 | 3.3 | 3.0 | 3.3 | 3.0 | 4.0 | 3.6 | 3.3 | 3.5 | 2.8 | 2.3 | 1.4 | 1.5 | 0.8 | 2.0 | 4.0 | 0.1 |
| 30 | 0.9 | 0.7 | 1.4 | 0.8 | 1.0 | 0.3 | 0.4 | 0.4 | 0.5 | 1.6 | 1.9 | 2.3 | 2.3 | 2.8 | 2.7 | 2.7 | 2.6 | 1.9 | 2.6 | 2.2 | 1.8 | 1.3 | 0.4 | 0.2 | 1.5 | 2.8 | 0.2 |
| 31 | 0.2 | 1.1 | 2.7 | 2.7 | 2.0 | 2.0 | 1.9 | 1.3 | 1.8 | 1.2 | 0.6 | 2.1 | 2.6 | 2.8 | 2.6 | 2.7 | 3.4 | 3.3 | 3.2 | 1.1 | 3.6 | 3.5 | 3.0 | 2.3 | 2.2 | 3.6 | 0.2 |
| Average | 1.5 | 1.4 | 1.4 | 1.3 | 1.3 | 1.3 | 1.3 | 1.7 | 1.8 | 1.8 | 2.0 | 2.1 | 2.3 | 2.7 | 3.0 | 3.0 | 3.2 | 3.2 | 3.1 | 2.8 | 2.4 | 2.3 | 1.8 | 1.6 | | | |
| Maximum | 3.7 | 3.8 | 3.6 | 3.9 | 3.9 | 4.9 | 5.5 | 6.0 | 5.7 | 4.7 | 3.6 | 3.5 | 3.6 | 3.6 | 4.4 | 4.1 | 4.2 | 4.0 | 3.9 | 4.1 | 3.8 | 3.5 | 3.5 | 3.3 | | | |
| Minimum | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.4 | 0.3 | 0.2 | 0.3 | 0.1 | 0.3 | 0.7 | 0.5 | 0.7 | 1.9 | 0.5 | 1.1 | 0.6 | 1.3 | 0.2 | 0.1 | | | | |

Quality Control Codes

| | |
|--------------------------------------|----|
| Auto Zero, Span Check | AS |
| Calibration | CA |
| Invalid Hour | IH |
| Instrument Malfunction | IM |
| Instrument Repair | IR |
| Channel Off Line | OL |
| Out of Range | OR |
| Rate of Change | RC |
| Replace Instrument | RP |
| Shelter Temperature Range Exceedance | ST |
| Instrument Warm Up | WU |

Data Report - Level 1.0 Validation

Project Name: Calpines Initial Study

Site Name: Park



PCR

PCR Services Corporation

Parameter: Wind Direction

Units: Degrees True

Month: August

Year: 2005

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Ave | Max | Min | |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 292 | 278 | 269 | 163 | 141 | 147 | 290 | 295 | 295 | 292 | 281 | 292 | 295 | 291 | 296 | 292 | 294 | 299 | 289 | 287 | 287 | 291 | 296 | 275 | 272 | 299 | 141 | |
| 2 | 274 | 224 | 144 | 133 | 132 | 112 | 288 | 287 | 278 | 285 | 289 | 292 | 296 | 298 | 295 | 296 | 296 | 289 | 292 | 289 | 292 | 297 | 305 | 300 | 262 | 305 | 112 | |
| 3 | 191 | 169 | 162 | 151 | 189 | 135 | 135 | 107 | 117 | 131 | 141 | 272 | 289 | 290 | IM | 288 | 298 | 297 | 294 | 293 | 157 | 134 | 127 | 126 | 195 | 298 | 107 | |
| 4 | 119 | 111 | 115 | 130 | 141 | 227 | 156 | 137 | 168 | 188 | 275 | 284 | 289 | 296 | 293 | 292 | 297 | 300 | 298 | 292 | 293 | 293 | 291 | 150 | 226 | 300 | 111 | |
| 5 | 128 | 132 | 176 | 283 | 271 | 258 | 253 | 285 | 281 | 280 | 291 | 286 | 295 | 297 | 296 | 297 | 300 | 301 | 296 | 290 | 300 | 290 | 302 | 307 | 271 | 307 | 128 | |
| 6 | 301 | 289 | 283 | 274 | 292 | 140 | 152 | 133 | 132 | 103 | 292 | 289 | 295 | 295 | 296 | 299 | 290 | 296 | 294 | 291 | 296 | 298 | 284 | 280 | 258 | 301 | 103 | |
| 7 | 276 | 283 | 295 | 271 | 192 | 120 | 146 | 124 | 114 | 123 | 124 | 286 | 290 | 294 | 296 | 295 | 301 | 296 | 293 | 289 | 297 | 300 | 293 | 304 | 246 | 304 | 114 | |
| 8 | 303 | 298 | 306 | 266 | 261 | 141 | 123 | 130 | 169 | 267 | 282 | 283 | 291 | 291 | 292 | 294 | 299 | 299 | 294 | 289 | 299 | 308 | 305 | 266 | 308 | 123 | | |
| 9 | 304 | 131 | 127 | 146 | 144 | 127 | 130 | 112 | 125 | 166 | 225 | 290 | 289 | 287 | 288 | 297 | 300 | 295 | 298 | 292 | 292 | 299 | 142 | 123 | 218 | 304 | 112 | |
| 10 | 125 | 113 | 118 | 128 | 131 | 131 | 118 | 132 | 135 | 127 | 121 | 112 | 212 | 287 | 296 | 294 | 295 | 295 | 291 | 290 | 291 | 299 | 281 | 251 | 203 | 299 | 112 | |
| 11 | 53 | 126 | 125 | 119 | 101 | 139 | 140 | 110 | 113 | 109 | 124 | 270 | 283 | 294 | 294 | 282 | 301 | 295 | 288 | 287 | 298 | 133 | 131 | 134 | 190 | 301 | 53 | |
| 12 | 128 | 126 | 125 | 106 | 116 | 117 | 135 | 137 | 123 | 132 | 130 | 119 | 181 | 251 | 290 | 296 | 298 | 294 | 297 | 141 | 133 | 129 | 130 | 127 | 169 | 298 | 106 | |
| 13 | 128 | 128 | 118 | 107 | 113 | 115 | 119 | 135 | 131 | 122 | 111 | 114 | 131 | 140 | 111 | 155 | 287 | 295 | 296 | 298 | 291 | 291 | 5 | 133 | 161 | 298 | 5 | |
| 14 | 117 | 112 | 130 | 115 | 123 | 130 | 138 | 135 | 137 | 119 | 114 | 123 | 134 | 133 | 138 | 138 | 282 | 297 | 299 | 294 | 136 | 130 | 128 | 121 | 155 | 299 | 112 | |
| 15 | 116 | 120 | 116 | 112 | 110 | 109 | 112 | 120 | 134 | 116 | 115 | 146 | 125 | 122 | 128 | 120 | 117 | 126 | 143 | 294 | 301 | 295 | 284 | 291 | 157 | 301 | 109 | |
| 16 | 302 | 306 | 308 | 19 | 173 | 142 | 136 | 150 | 291 | 281 | 284 | 287 | 291 | 292 | 293 | 293 | 295 | 302 | 292 | 299 | 275 | 135 | 126 | 135 | 238 | 308 | 19 | |
| 17 | 144 | 123 | 119 | 117 | 132 | 130 | 129 | 132 | 142 | 133 | 129 | 133 | 129 | 245 | 286 | 299 | 301 | 300 | 296 | 290 | 161 | 135 | 135 | 118 | 177 | 301 | 117 | |
| 18 | 113 | 110 | 109 | 104 | 104 | 108 | 109 | 114 | 116 | 113 | 123 | 127 | 145 | 281 | 288 | 294 | 296 | 298 | 296 | 291 | 288 | 290 | 296 | 70 | 187 | 298 | 70 | |
| 19 | 296 | 233 | 199 | 287 | 283 | 294 | 181 | 171 | 149 | 112 | 245 | 291 | 286 | 293 | 294 | 293 | 294 | 298 | 297 | 291 | 291 | 294 | 292 | 293 | 261 | 298 | 112 | |
| 20 | 298 | 286 | 288 | 270 | 278 | 285 | 295 | 294 | 288 | 284 | 295 | 296 | 295 | 295 | 294 | 297 | 294 | 300 | 304 | 291 | 292 | 291 | 295 | 291 | 291 | 304 | 270 | |
| 21 | 292 | 291 | 287 | 293 | 285 | 288 | 291 | 294 | 292 | 290 | 293 | 292 | 291 | 297 | 299 | 297 | 296 | 298 | 294 | 292 | 287 | 288 | 300 | 291 | 292 | 300 | 285 | |
| 22 | 290 | 274 | 275 | 294 | 310 | 217 | 176 | 278 | 282 | 280 | 286 | 285 | 298 | 296 | 292 | 294 | 297 | 295 | 301 | 300 | 298 | 299 | 299 | 261 | 282 | 310 | 176 | |
| 23 | 119 | 113 | 117 | 114 | 123 | 124 | 115 | 124 | 142 | 121 | 121 | 126 | 261 | 289 | 292 | 295 | 276 | 139 | 138 | 131 | 130 | 132 | 129 | 122 | 158 | 295 | 113 | |
| 24 | 105 | 105 | 111 | 122 | 119 | 123 | 124 | 124 | 120 | 115 | 112 | 126 | 131 | 130 | 129 | 284 | 293 | 294 | 292 | 228 | 138 | 133 | 128 | 115 | 113 | 147 | 294 | 105 |
| 25 | 124 | 122 | 121 | 121 | 117 | 118 | 114 | 117 | 124 | 118 | 136 | 220 | 285 | 288 | 291 | 295 | 297 | 301 | 299 | 296 | 296 | 306 | 305 | 290 | 213 | 306 | 114 | |
| 26 | 250 | 161 | 144 | 133 | 2 | 30 | 149 | 128 | 288 | 290 | 294 | 286 | 288 | 293 | 292 | 292 | 294 | 301 | 300 | 294 | 297 | 298 | 292 | 302 | 237 | 302 | 2 | |
| 27 | 278 | 275 | 283 | 293 | 298 | 277 | 247 | 295 | 292 | 295 | 291 | 290 | 289 | 290 | 291 | 299 | 293 | 299 | 299 | 289 | 287 | 296 | 262 | 138 | 281 | 299 | 138 | |
| 28 | 125 | 153 | 146 | 172 | 271 | 219 | 126 | 136 | 149 | 286 | 295 | 293 | 287 | 295 | 297 | 300 | 300 | 302 | 294 | 288 | 282 | 299 | 144 | 240 | 302 | 125 | | |
| 29 | 142 | 266 | 259 | 127 | 134 | 120 | 119 | 134 | 294 | 295 | 295 | 296 | 291 | 298 | 294 | 298 | 301 | 302 | 301 | 292 | 285 | 293 | 286 | 276 | 250 | 302 | 119 | |
| 30 | 278 | 284 | 288 | 306 | 285 | 296 | 304 | 295 | 288 | 297 | 292 | 293 | 289 | 290 | 293 | 293 | 293 | 283 | 302 | 287 | 286 | 307 | 310 | 129 | 286 | 310 | 129 | |
| 31 | 120 | 122 | 119 | 116 | 102 | 106 | 101 | 128 | 129 | 160 | 280 | 7 | 289 | 5 | 289 | 4 | 289 | 285 | 293 | 299 | 302 | 303 | 168 | 133 | 129 | 130 | 127 | |
| Average | 198 | 189 | 187 | 174 | 177 | 162 | 166 | 171 | 188 | 194 | 216 | 238 | 253 | 269 | 271 | 279 | 289 | 287 | 284 | 273 | 257 | 248 | 232 | 204 | | | | |
| Maximum | 304 | 306 | 308 | 306 | 310 | 296 | 304 | 295 | 297 | 295 | 296 | 298 | 298 | 299 | 300 | 301 | 302 | 304 | 300 | 301 | 307 | 310 | 307 | | | | | |
| Minimum | 53 | 105 | 109 | 19 | 2 | 30 | 101 | 107 | 113 | 103 | 111 | 112 | 125 | 122 | 111 | 120 | 117 | 126 | 138 | 131 | 130 | 128 | 5 | 70 | | | | |

Quality Control Codes

| | |
|--------------------------------------|----|
| Auto Zero, Span Check | AS |
| Calibration | CA |
| Invalid Hour | IH |
| Instrument Malfunction | IM |
| Instrument Repair | IR |
| Channel Off Line | OL |
| Out of Range | OR |
| Rate of Change | RC |
| Replace Instrument | RP |
| Shelter Temperature Range Exceedance | ST |
| Instrument Warm Up | WU |

Data Report - Level 1.0 Validation

Project Name: Calpines Initial Study

Site Name: Park



PCR Services Corporation

Parameter: Ambient Temperature

Units: Degrees Celcius (oC)

Month: August

Year: 2005

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Ave | Max | Min |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 17.8 | 17.0 | 16.4 | 15.8 | 15.2 | 15.0 | 17.9 | 18.0 | 19.7 | 22.1 | 25.2 | 27.6 | 29.3 | 30.9 | 31.6 | 31.8 | 31.8 | 31.1 | 28.4 | 25.5 | 23.3 | 22.0 | 20.9 | 19.5 | 23.1 | 31.8 | 15.0 |
| 2 | 18.4 | 17.1 | 16.3 | 15.6 | 15.0 | 14.9 | 17.3 | 19.0 | 22.2 | 24.0 | 26.1 | 27.3 | 29.1 | 29.7 | 29.8 | 29.8 | 29.1 | 27.8 | 25.8 | 23.1 | 21.2 | 19.9 | 19.1 | 18.4 | 22.3 | 29.8 | 14.9 |
| 3 | 17.4 | 16.7 | 16.2 | 15.8 | 15.3 | 15.4 | 16.6 | 18.5 | 21.7 | 24.7 | 27.5 | 29.4 | 30.6 | 31.0 | IM | 30.9 | 30.1 | 29.2 | 27.1 | 24.9 | 22.0 | 18.2 | 16.9 | 16.1 | 22.3 | 31.0 | 15.3 |
| 4 | 15.6 | 15.2 | 14.8 | 14.6 | 14.5 | 14.3 | 14.5 | 16.1 | 18.0 | 20.7 | 22.8 | CA | IR | 16.5 | 22.8 | 14.3 |
| 5 | IR |
| 6 | IR |
| 7 | IR |
| 8 | IR |
| 9 | IR |
| 10 | IR |
| 11 | IR |
| 12 | IR |
| 13 | IR |
| 14 | IR |
| 15 | IR |
| 16 | IR |
| 17 | IR |
| 18 | IR |
| 19 | IR |
| 20 | IR |
| 21 | IR |
| 22 | IR |
| 23 | IR | CA | 14.7 | 13.8 | 13.2 | 13.9 | |
| 24 | 12.8 | 12.6 | 12.4 | 12.5 | 12.5 | 12.7 | 3.0 | 12.5 | 13.7 | 15.3 | 17.9 | 20.5 | 23.0 | 25.6 | 27.6 | 28.8 | 27.5 | 26.7 | 25.0 | 21.6 | 18.2 | 16.1 | 15.0 | 14.1 | 17.8 | 28.8 | 3.0 |
| 25 | 13.5 | 13.0 | 13.1 | 13.5 | 13.3 | 13.3 | 13.4 | 14.7 | 16.9 | 19.7 | 23.2 | 25.2 | 26.9 | 27.3 | 27.4 | 27.2 | 26.9 | 25.4 | 23.4 | 21.7 | 19.9 | 18.7 | 17.4 | 19.5 | 27.4 | 13.0 | |
| 26 | 16.2 | 15.4 | 14.7 | 14.0 | 13.4 | 12.7 | 12.4 | 14.9 | 16.8 | 17.9 | 20.0 | 22.7 | 25.3 | 26.8 | 27.8 | 29.1 | 29.4 | 29.1 | 28.1 | 25.5 | 22.5 | 20.8 | 19.7 | 18.9 | 20.6 | 29.4 | 12.4 |
| 27 | 18.0 | 17.3 | 16.9 | 16.4 | 15.9 | 15.4 | 14.9 | 15.9 | 17.1 | 18.8 | 21.1 | 23.8 | 26.1 | 27.6 | 29.0 | 30.5 | 31.2 | 31.5 | 29.8 | 27.9 | 25.8 | 24.0 | 22.1 | 20.4 | 22.4 | 31.5 | 14.9 |
| 28 | 19.5 | 18.5 | 17.5 | 17.0 | 16.6 | 16.1 | 15.6 | 16.3 | 20.0 | 21.2 | 23.1 | 25.4 | 27.8 | 29.7 | 30.6 | 31.5 | 31.7 | 31.5 | 30.6 | 27.7 | 23.7 | 21.3 | 20.4 | 18.4 | 23.0 | 31.7 | 15.6 |
| 29 | 16.7 | 16.0 | 16.2 | 15.0 | 14.3 | 13.7 | 13.3 | 14.6 | 17.4 | 19.7 | 22.0 | 23.6 | 25.3 | 26.8 | 27.7 | 27.0 | 26.1 | 26.0 | 24.7 | 22.9 | 21.5 | 20.0 | 18.9 | 17.6 | 20.3 | 27.7 | 13.3 |
| 30 | 17.0 | 16.4 | 16.1 | 15.6 | 15.1 | 14.5 | 13.7 | 15.9 | 18.8 | 20.9 | 23.5 | 25.7 | 27.7 | 29.1 | 30.5 | 31.1 | 31.6 | 31.5 | 30.1 | 27.8 | 25.4 | 23.9 | 21.7 | 19.1 | 22.6 | 31.6 | 13.7 |
| 31 | 17.8 | 17.3 | 17.2 | 17.0 | 16.5 | 15.7 | 16.2 | 16.7 | 19.3 | 23.5 | 27.3 | 29.0 | 31.0 | 32.7 | 33.7 | 34.4 | 34.3 | 33.3 | 31.8 | 26.7 | 20.9 | 18.1 | 16.4 | 15.7 | 23.4 | 34.4 | 15.7 |
| Average | 16.7 | 16.1 | 15.6 | 15.2 | 14.8 | 14.5 | 14.1 | 16.0 | 18.3 | 20.5 | 23.0 | 25.3 | 27.3 | 28.8 | 29.6 | 30.2 | 30.0 | 29.5 | 27.9 | 25.2 | 22.4 | 19.9 | 18.6 | 17.4 | | | |
| Maximum | 19.5 | 18.5 | 17.5 | 17.0 | 16.6 | 16.1 | 17.9 | 19.0 | 22.2 | 24.7 | 27.5 | 29.4 | 31.0 | 32.7 | 33.7 | 34.4 | 34.3 | 33.3 | 31.8 | 27.9 | 25.8 | 24.0 | 22.1 | 20.4 | | | |
| Minimum | 12.8 | 12.6 | 12.4 | 12.5 | 12.5 | 12.7 | 3.0 | 12.5 | 13.7 | 15.3 | 17.9 | 20.5 | 23.0 | 25.6 | 27.3 | 27.0 | 26.1 | 26.0 | 24.7 | 21.6 | 18.2 | 14.7 | 13.8 | 13.2 | | | |

Quality Control Codes

| | |
|--------------------------------------|----|
| Auto Zero, Span Check | AS |
| Calibration | CA |
| Invalid Hour | IH |
| Instrument Malfunction | IM |
| Instrument Repair | IR |
| Channel Off Line | OL |
| Out of Range | OR |
| Rate of Change | RC |
| Replace Instrument | RP |
| Shelter Temperature Range Exceedance | ST |
| Instrument Warm Up | WU |

Data Report - Level 0.0 Validation

Project Name: Calpines Initial Study

Site Name: Park



PCR Services Corporation

Parameter: Relative Humidity

Units: Percent (%)

Month: August

Year: 2005

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Ave | Max | Min | |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|----|
| 1 | 83 | 85 | 88 | 90 | 88 | 84 | 77 | 79 | 73 | 65 | 52 | 42 | 34 | 27 | 21 | 19 | 19 | 21 | 32 | 38 | 46 | 51 | 57 | 66 | 56 | 90 | 19 | |
| 2 | 71 | 77 | 81 | 84 | 87 | 85 | 73 | 73 | 59 | 52 | 46 | 43 | 34 | 33 | 34 | 37 | 38 | 41 | 47 | 57 | 67 | 72 | 75 | 79 | 60 | 87 | 33 | |
| 3 | 84 | 86 | 88 | 89 | 90 | 90 | 83 | 74 | 64 | 53 | 42 | 37 | 35 | 37 | 37 | 40 | 40 | 47 | 53 | 60 | 72 | 78 | 82 | 64 | 90 | 35 | | |
| 4 | 84 | 85 | 87 | 88 | 89 | 89 | 82 | 77 | 69 | 62 | CA | IR | 82 | 89 | 62 | |
| 5 | IR | IR | IR | |
| 6 | IR | IR | IR | |
| 7 | IR | IR | IR | |
| 8 | IR | IR | IR | |
| 9 | IR | IR | IR | |
| 10 | IR | IR | IR | |
| 11 | IR | IR | IR | |
| 12 | IR | IR | IR | |
| 13 | IR | IR | IR | |
| 14 | IR | IR | IR | |
| 15 | IR | IR | IR | |
| 16 | IR | IR | IR | |
| 17 | IR | IR | IR | |
| 18 | IR | IR | IR | |
| 19 | IR | IR | IR | |
| 20 | IR | IR | IR | |
| 21 | IR | IR | IR | |
| 22 | IR | IR | IR | |
| 23 | IR | IR | IR | |
| 24 | 91 | 92 | 93 | 94 | 94 | 93 | 92 | 91 | 87 | 80 | 70 | 60 | 52 | 43 | 37 | 37 | 42 | 44 | 48 | 56 | 68 | 76 | 81 | 85 | 71 | 94 | 37 | |
| 25 | 88 | 90 | 90 | 89 | 90 | 89 | 88 | 87 | 81 | 72 | 59 | 45 | 39 | 34 | 36 | 39 | 40 | 42 | 47 | 53 | 59 | 69 | 74 | 79 | 66 | 90 | 34 | |
| 26 | 84 | 86 | 87 | 88 | 91 | 92 | 93 | 83 | 77 | 75 | 66 | 57 | 49 | 44 | 41 | 37 | 36 | 33 | 34 | 43 | 55 | 64 | 66 | 71 | 65 | 93 | 33 | |
| 27 | 75 | 78 | 81 | 83 | 85 | 87 | 89 | 85 | 80 | 73 | 64 | 53 | 45 | 40 | 31 | 23 | 20 | 18 | 20 | 20 | 25 | 30 | 37 | 42 | 53 | 89 | 18 | |
| 28 | 58 | 61 | 62 | 67 | 78 | 81 | 82 | 73 | 61 | 61 | 56 | 48 | 38 | 32 | 31 | 27 | 22 | 22 | 19 | 23 | 23 | 36 | 48 | 52 | 59 | 50 | 82 | 19 |
| 29 | 68 | 72 | 81 | 82 | 79 | 81 | 83 | 79 | 76 | 65 | 53 | 44 | 38 | 33 | 34 | 37 | 33 | 36 | 40 | 45 | 53 | 57 | 65 | 57 | 83 | 33 | | |
| 30 | 68 | 72 | 74 | 75 | 77 | 80 | 84 | 76 | 66 | 53 | 42 | 33 | 27 | 22 | 19 | 17 | 16 | 18 | 21 | 24 | 26 | 28 | 35 | 44 | 46 | 84 | 16 | |
| 31 | 48 | 45 | 50 | 52 | 50 | 52 | 49 | 50 | 44 | 33 | 26 | 20 | 18 | 14 | 14 | 14 | 13 | 14 | 19 | 37 | 55 | 68 | 77 | 81 | 39 | 81 | 13 | |
| Average | 75 | 78 | 80 | 82 | 83 | 84 | 82 | 78 | 70 | 62 | 53 | 44 | 37 | 33 | 30 | 29 | 29 | 30 | 34 | 40 | 49 | 59 | 64 | 70 | | | | |
| Maximum | 91 | 92 | 93 | 94 | 94 | 93 | 93 | 91 | 87 | 80 | 70 | 60 | 52 | 44 | 41 | 39 | 42 | 44 | 48 | 57 | 68 | 81 | 85 | 89 | | | | |
| Minimum | 48 | 45 | 50 | 52 | 50 | 52 | 49 | 50 | 44 | 33 | 26 | 20 | 18 | 14 | 14 | 14 | 13 | 14 | 19 | 20 | 25 | 28 | 35 | 42 | | | | |

Quality Control Codes

| | |
|--------------------------------------|----|
| Auto Zero, Span Check | AS |
| Calibration | CA |
| Invalid Hour | IH |
| Instrument Malfunction | IM |
| Instrument Repair | IR |
| Channel Off Line | OL |
| Out of Range | OR |
| Rate of Change | RC |
| Replace Instrument | RP |
| Shelter Temperature Range Exceedance | ST |
| Instrument Warm Up | WU |

Data Report - Level 1.0 Validation

Project Name: Calpines Initial Study

Site Name: Park



PCR

PCR Services Corporation

Parameter: Shelter Temperature

Units: Degrees Celcius (oC)

Month: August

Year: 2005

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Ave | Max | Min | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| 1 | 23.7 | 23.8 | 23.7 | 23.7 | 23.7 | 23.7 | 23.6 | 23.5 | 23.6 | 23.7 | 24.0 | 24.3 | 24.6 | 24.8 | 25.1 | 25.4 | 25.7 | 26.0 | 26.2 | 25.8 | 24.9 | 24.2 | 23.8 | 23.6 | 24.4 | 26.2 | 23.5 | | |
| 2 | 23.6 | 23.7 | 23.7 | 23.7 | 23.8 | 23.7 | 23.7 | 23.6 | 23.6 | 23.7 | 24.0 | 24.3 | 24.6 | 24.9 | 25.2 | 25.3 | 25.4 | 25.6 | 25.6 | 25.2 | 24.6 | 24.2 | 23.9 | 23.7 | 24.3 | 25.6 | 23.6 | | |
| 3 | 23.6 | 23.7 | 23.7 | 23.8 | 23.7 | 23.7 | 23.7 | 23.6 | 23.6 | 23.7 | 23.9 | 24.5 | 26.0 | 26.5 | IM | 26.5 | 26.2 | 26.0 | 26.2 | 26.7 | 26.7 | 26.4 | 26.1 | 25.0 | 26.7 | 23.6 | | | |
| 4 | 25.1 | 24.5 | 24.1 | 24.0 | 24.0 | 23.9 | 23.8 | 23.9 | 24.6 | 25.4 | 25.9 | 26.1 | 26.0 | 25.8 | 25.6 | 25.4 | 25.3 | 25.3 | 25.4 | 25.4 | 25.2 | 24.6 | 24.2 | 23.9 | 24.9 | 26.1 | 23.8 | | |
| 5 | 23.7 | 23.7 | 23.6 | 23.6 | 23.5 | 23.5 | 23.5 | 23.4 | 23.4 | 23.4 | 23.6 | 23.9 | 24.3 | 24.6 | 25.1 | 25.4 | 25.6 | 25.9 | 26.1 | 26.2 | 25.8 | 25.0 | 24.3 | 23.9 | 24.4 | 26.2 | 23.4 | | |
| 6 | 23.6 | 23.7 | 23.7 | 23.7 | 23.6 | 23.5 | 23.5 | 23.4 | 23.4 | 23.4 | 23.6 | 23.9 | 24.3 | 24.8 | 25.1 | 25.3 | 25.5 | 25.6 | 25.8 | 25.9 | 25.5 | 24.8 | 24.2 | 23.8 | 24.3 | 25.9 | 23.4 | | |
| 7 | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | 23.5 | 23.5 | 23.5 | 23.4 | 23.4 | 23.5 | 23.8 | 24.2 | 24.8 | 25.0 | 25.1 | 25.2 | 25.3 | 25.4 | 25.4 | 25.0 | 24.5 | 24.1 | 23.8 | 24.2 | 25.4 | 23.4 | | |
| 8 | 23.7 | 23.7 | 23.7 | 23.7 | 23.6 | 23.5 | 23.5 | 23.5 | 23.4 | 23.4 | 23.5 | 23.8 | 24.1 | 24.3 | 24.5 | 24.7 | 24.9 | 24.9 | 25.0 | 25.1 | 24.8 | 24.3 | 24.0 | 23.7 | 24.1 | 25.1 | 23.4 | | |
| 9 | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | 23.8 | 23.5 | 23.4 | 23.5 | 23.7 | 24.0 | 24.3 | 24.5 | 24.7 | 24.9 | 25.0 | 25.2 | 25.3 | 25.3 | 25.7 | 25.0 | 24.3 | 24.2 | 25.7 | 23.4 | | |
| 10 | 23.9 | 23.8 | 23.7 | 23.7 | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | 23.7 | 23.6 | 24.0 | 24.4 | 24.8 | 24.9 | 25.1 | 25.2 | 25.3 | 24.8 | 24.4 | 24.0 | 23.7 | 24.1 | 25.3 | 23.6 | | | |
| 11 | 23.6 | 23.7 | 23.6 | 23.7 | 23.7 | 23.7 | 23.8 | 23.7 | 23.6 | 23.5 | 23.5 | 23.8 | 24.1 | 24.5 | 24.9 | 25.2 | 25.4 | 25.6 | 25.8 | 25.9 | 26.7 | 27.0 | 26.7 | 26.3 | 24.7 | 27.0 | 23.5 | | |
| 12 | 25.5 | 24.6 | 24.1 | 24.0 | 23.9 | 23.9 | 23.9 | 23.9 | 23.7 | 23.5 | 23.5 | 23.5 | 23.7 | 24.0 | 24.5 | 25.1 | 25.4 | 25.4 | 25.4 | 25.2 | 24.7 | 24.2 | 23.8 | 24.3 | 24.3 | 25.5 | 23.5 | | |
| 13 | 23.6 | 23.7 | 23.7 | 23.8 | 23.8 | 23.7 | 23.7 | 23.7 | 23.7 | 23.7 | 23.6 | 23.5 | 23.4 | 23.4 | 23.5 | 23.6 | 23.7 | 23.8 | 23.9 | 23.9 | 23.7 | 23.6 | 23.5 | 23.7 | 23.9 | 23.4 | | | |
| 14 | 23.5 | 23.6 | 23.7 | 23.7 | 23.8 | 23.7 | 23.7 | 23.7 | 23.7 | 23.6 | 23.6 | 23.5 | 23.4 | 23.5 | 23.6 | 23.8 | 23.9 | 24.0 | 24.2 | 24.2 | 24.0 | 23.7 | 23.6 | 23.5 | 23.7 | 24.2 | 23.4 | | |
| 15 | 23.6 | 23.7 | 23.7 | 23.8 | 23.8 | 23.8 | 23.8 | 23.7 | 23.7 | 23.6 | 23.5 | 23.5 | 23.4 | 23.5 | 23.5 | 23.7 | 23.9 | 23.9 | 23.9 | 23.8 | 23.7 | 23.6 | 23.5 | 23.7 | 23.9 | 23.4 | | | |
| 16 | 23.5 | 23.6 | 23.6 | 23.7 | 23.7 | 23.7 | 23.7 | 23.6 | 23.5 | 23.5 | 23.6 | 23.7 | 24.0 | 24.3 | 24.4 | 24.5 | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 | 24.5 | 24.2 | 23.9 | 24.0 | 24.6 | 23.5 | | |
| 17 | 23.6 | 23.7 | 23.7 | 23.9 | 23.9 | 23.8 | 23.8 | 23.7 | 23.7 | 23.7 | 23.5 | 23.5 | 23.5 | 23.7 | 24.0 | 24.3 | 24.4 | 24.5 | 24.5 | 24.4 | 24.3 | 24.0 | 23.7 | 23.6 | 23.9 | 24.5 | 23.5 | | |
| 18 | 23.6 | 23.8 | 23.8 | 23.8 | 23.9 | 23.9 | 23.8 | 23.9 | 23.8 | 23.7 | 23.5 | 23.5 | 23.5 | 23.7 | 23.9 | 24.1 | 24.2 | 24.2 | 24.3 | 24.2 | 24.7 | 24.8 | 24.1 | 23.7 | 23.9 | 24.8 | 23.5 | | |
| 19 | 23.6 | 23.7 | 23.7 | 23.7 | 23.7 | 23.7 | 23.6 | 23.5 | 23.5 | 23.5 | 23.5 | 23.6 | 23.8 | 24.0 | 24.1 | 24.2 | 24.2 | 24.2 | 24.1 | 24.1 | 23.9 | 23.7 | 23.6 | 23.6 | 23.8 | 24.2 | 23.5 | | |
| 20 | 23.6 | 23.7 | 23.7 | 23.8 | 23.7 | 23.7 | 23.7 | 23.7 | 23.6 | 23.6 | 23.5 | 23.5 | 23.6 | 23.7 | 23.8 | 23.8 | 23.9 | 23.9 | 23.9 | 23.9 | 23.8 | 23.6 | 23.6 | 23.7 | 23.9 | 23.5 | | | |
| 21 | 23.6 | 23.8 | 23.8 | 23.8 | 23.7 | 23.7 | 23.7 | 23.7 | 23.6 | 23.6 | 23.5 | 23.5 | 23.5 | 23.6 | 23.7 | 23.8 | 23.8 | 23.9 | 23.9 | 23.9 | 23.7 | 23.6 | 23.5 | 23.7 | 23.9 | 23.5 | | | |
| 22 | 23.6 | 23.7 | 23.8 | 23.9 | 23.9 | 23.8 | 23.8 | 23.8 | 23.8 | 23.6 | 23.5 | 23.5 | 23.6 | 23.8 | 24.0 | 24.1 | 24.2 | 24.3 | 24.4 | 24.4 | 24.2 | 23.9 | 23.7 | 23.6 | 23.9 | 24.4 | 23.5 | | |
| 23 | 23.5 | 23.6 | 23.7 | 23.7 | 23.8 | 23.8 | 23.8 | 23.8 | 23.7 | 23.7 | 23.5 | 23.5 | 23.7 | 24.1 | 24.5 | 25.0 | 25.2 | 25.2 | 25.2 | 25.1 | 24.8 | 25.1 | 25.1 | 24.3 | 24.3 | 24.2 | 25.2 | 23.5 | |
| 24 | 23.8 | 23.9 | 23.9 | 24.0 | 24.1 | 24.0 | 24.0 | 23.9 | 23.7 | 23.7 | 23.5 | 23.4 | 23.5 | 23.7 | 23.9 | 24.1 | 24.3 | 24.4 | 24.4 | 24.3 | 24.0 | 23.8 | 23.6 | 23.5 | 23.9 | 24.4 | 23.4 | | |
| 25 | 23.6 | 23.8 | 23.8 | 24.0 | 23.9 | 23.9 | 23.9 | 23.8 | 23.7 | 23.5 | 23.5 | 23.5 | 23.7 | 23.9 | 24.1 | 24.2 | 24.3 | 24.3 | 24.3 | 24.2 | 24.0 | 23.7 | 23.6 | 23.5 | 23.9 | 24.3 | 23.5 | | |
| 26 | 23.5 | 23.7 | 23.7 | 23.8 | 23.8 | 23.9 | 23.9 | 24.0 | 23.7 | 23.5 | 23.5 | 23.6 | 23.8 | 24.1 | 24.3 | 24.5 | 24.5 | 24.6 | 24.6 | 24.5 | 24.2 | 23.9 | 23.7 | 23.6 | 24.0 | 24.6 | 23.5 | | |
| 27 | 23.6 | 23.6 | 23.6 | 23.7 | 23.7 | 23.7 | 23.6 | 23.6 | 23.5 | 23.4 | 23.5 | 23.7 | 24.0 | 24.3 | 24.4 | 24.5 | 24.5 | 24.6 | 24.8 | 24.6 | 24.6 | 24.1 | 23.8 | 23.6 | 23.9 | 24.8 | 23.4 | | |
| 28 | 23.5 | 23.6 | 23.6 | 23.6 | 23.6 | 23.7 | 23.6 | 23.6 | 23.5 | 23.5 | 23.4 | 23.5 | 23.7 | 24.0 | 24.4 | 24.7 | 25.1 | 25.3 | 25.4 | 25.5 | 25.3 | 24.6 | 24.0 | 23.7 | 24.1 | 25.5 | 23.4 | | |
| 29 | 23.5 | 23.6 | 23.6 | 23.7 | 23.7 | 23.7 | 23.8 | 23.8 | 23.8 | 23.6 | 23.5 | 23.5 | 23.6 | 23.7 | 23.9 | 24.0 | 24.1 | 24.2 | 24.1 | 24.0 | 23.9 | 24.6 | 24.8 | 24.1 | 23.7 | 23.9 | 24.8 | | |
| 30 | 23.6 | 23.7 | 23.7 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.6 | 23.5 | 23.5 | 23.6 | 23.7 | 23.9 | 24.2 | 24.5 | 24.8 | 25.0 | 25.1 | 25.2 | 25.0 | 24.4 | 23.9 | 23.7 | 24.1 | 25.2 | 23.5 | |
| 31 | 23.5 | 23.6 | 23.6 | 23.7 | 23.7 | 23.7 | 23.6 | 23.7 | 23.6 | 23.5 | 23.6 | 23.8 | 24.3 | 25.0 | 25.7 | 26.2 | 26.3 | 26.5 | 26.4 | 25.6 | 24.5 | 23.9 | 23.7 | 24.5 | 24.5 | 26.5 | 23.5 | | |
| Average | 23.7 | 23.8 | 23.7 | 23.8 | 23.8 | 23.7 | 23.7 | 23.6 | 23.6 | 23.7 | 23.8 | 24.0 | 24.4 | 24.5 | 24.7 | 24.8 | 24.8 | 24.9 | 24.9 | 24.7 | 24.4 | 24.0 | 23.8 | | | | | | |
| Maximum | 25.5 | 24.6 | 24.1 | 24.0 | 24.1 | 24.0 | 24.0 | 24.6 | 24.6 | 25.4 | 25.9 | 26.1 | 26.0 | 26.5 | 25.7 | 26.5 | 26.3 | 26.5 | 26.5 | 26.7 | 26.7 | 27.0 | 26.7 | 26.3 | | | | | |
| Minimum | 23.5 | 23.6 | 23.6 | 23.6 | 23.6 | 23.5 | 23.5 | 23.4 | 23.4 | 23.4 | 23.5 | 23.4 | 23.4 | 23.5 | 23.4 | 23.5 | 23.6 | 23.7 | 23.8 | 23.9 | 23.7 | 23.6 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | |

Quality Control Codes

| | |
|--------------------------------------|----|
| Auto Zero, Span Check | AS |
| Calibration | CA |
| Invalid Hour | IH |
| Instrument Malfunction | IM |
| Instrument Repair | IR |
| Channel Off Line | OL |
| Out of Range | OR |
| Rate of Change | RC |
| Replace Instrument | RP |
| Shelter Temperature Range Exceedance | ST |
| Instrument Warm Up | WU |